CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No: CTCE/BBMP/MEW/W.No.14/BM/Stripping/2017-18 19.06.2017

TEST REPORT ON STRIPPING VALUE OF ROAD AGGREGATE (STATIC IMMERSION TEST)

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Mahendra Engineering Works, (Prop. G. Venkatesh),** No. 243, 15th D Cross, 2nd stage, 2nd phase, West of Chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements and asphalting to 9th and 10th Main Bhuvaneshwari Nagara (left side and right side) 1st Main Brundavana Layout and Cross Roads in Bagalagunte Ward No. 14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/95/2017-18 Dated: 06.06.2017
Technical reference	:	IS: 6241
* Type of Mix	:	Bituminous Macadam
Date of Testing	:	19.06.2017

Type of binder : 80/100
Percentage of binder used : 5.0% by wt.
Total weight of aggregate : 200 g
Total weight of binder : 10.0 g
Temperature of water-bath : 40° C

Observation Number	Stripping, Percentage	Average, Percentage	Average Retained Coating, %
1	3.3	3.40	96.60
2	3.4		
3	3.5		

*Information is furnished by the Customer/Representative.

Comments:
→ Minimum allowable Aggregate retained coating for Bituminous Macadam is 95%

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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Job No: CTCE/BBMP/MEW/W.No.14/BM/Sp_Wa/2017-18 19.06.2017

TEST REEPORT ON SPECIFIC GRAVITY AND WATER ABSORPTION

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Mahendra Engineering Works, (Prop. G. Venkatesh),** No. 243, 15th D Cross, 2nd stage, 2nd phase, West of Chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements and asphalting to 9th and 10th Main Bhuvaneshwari Nagara (left side and right side) 1st Main Brundavana Layout and Cross Roads in Bagalagunte Ward No. 14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/95/2017-18 Dated: 06.06.2017
Technical reference	:	IS : 2386(Part -3)-1963 (RA-2011)
* Type of Mix	:	Bituminous Macadam
Date of Testing	:	19.06.2017

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 2	
1	Weight of aggregate suspended in water with the basket	W_1 g	2009	2010	2011	
2	Weight of basket suspended in water	W_2 g	750	750	750	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1259	1260	1261	
4	Weight of saturated surface dry aggregate in air	W_3 g	2006	2007	2008	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	747	747	747	
6	Weight of oven dried aggregate	W_4 g	1996	2002	2001	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.672	2.680	2.679	2.675
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.708	2.698	2.704	2.706
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.25%	0.35%	0.43%

*Information is furnished by the Customer/Representative.

Comments:
→ Maximum allowable Aggregate Water absorption value for Bituminous Macadam is 2.0%

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Job No.: CTCE/BBMP/MEW/W.No.14/BM/Bitumen/2017-18

19.06.2017

TEST REPORT ON BITUMEN CONTENT DETERMINATION OF BITUMINOUS MACADAM MIX

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Mahendra Engineering Works, (Prop. G. Venkatesh),** No. 243, 15th D Cross, 2nd stage, 2nd phase, West of Chord Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements and asphalting to 9th and 10th Main Bhuvaneshwari Nagara (left side and right side) 1st Main Brundavana Layout and Cross Roads in Bagalagunte Ward No. 14, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/95/2017-18 Dated: 06.06.2017
* Sample ID	:	Cross Road between 10th & 11th Main, Bagalagunte ward No.14
Technical Reference	:	IRC:SP:11-1984
Date of Testing	:	19.06.2017

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	482	482.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	18	17.50
7. Bitumen content in %	3.60	3.50
8. Average	3.55	

*Information is furnished by the Customer/Representative.

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